

REMARKS / ARGUMENTS

Examiner Klimowicz is thanked for the thorough examination of the subject Patent Application. The claims have been carefully reviewed and amended, and are considered to be in condition for allowance.

This structure and method for minimizing EME (Electromagnetic Emission) and the crosstalk between the signal lines which are used to write and read the tracks of magnetic disk drives. These signal lines are located on magnetic trace suspension assemblies which move above the magnetic disk drives. The structure and method utilize well-placed single and multiple crossovers on either or both of the lines used to read and write the tracks on magnetic disks. In addition, the structure and method utilize the parasitic capacitances between the write and read lines to couple beneficial voltages which cancel the unwanted crosstalk noise.

Reconsideration of the objection to the specification because of informalities listed by the examiner, is requested based on the following.

The specification informalities listed by the examiner have been corrected as suggested by the examiner.

Reconsideration of the objection to the claims because of informalities listed by the examiner, is requested based on the following.

The claim informalities listed by the examiner have been corrected as suggested by the examiner.

Reconsideration of the rejection of claims 1-6 and 19-24, under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the applicant regards as the invention, is requested based on the following.

All of the antecedent basis and clarity problems listed by the examiner have been corrected.

Reconsideration of the rejection of claims 1-6 and 19-24, under 35 U.S.C. 102(b) as being anticipated by Carpenter et al. (WO 98/20485 A1), is requested based on the following.

Independent claims 1 and 19 have been amended to emphasize the objective and advantage of the instant application. The words "wherein said multiple write lines which are crossed between said preamplifier connection point and said slider contact pads are used to cancel out time-delayed (transmission line effects) parts of said crosstalk and said

EME”, where EME is “electromagnetic emission”, which is now clearly stated in the amended claim 1 shown below.

A crosstalk and EME (electronmagnetic emission) minimizing trace suspension assembly structure comprising:

- multiple write lines which are crossed between a preamplifier connection point and slider contact pads;
- multiple read lines driven by pre-amplifier circuits;
- slider contact pads, which connect said write lines to said trace suspension assembly;
- slider contact pads, which connect said read lines to said trace suspension assembly; and
- multiple write line driven by preamplifier circuits,

wherein said multiple write lines which are crossed between said preamplifier connection point and said slider contact pads are used to cancel out time-delayed (transmission line effects) parts of said crosstalk and said EME.

The instant application’s objective and advantage is to reduce crosstalk and EME, which is the reduction of the transmission of noise interference from the trace assembly to other electronic units outside of the trace assembly as well as the reduction of the transmission of noise interference to internal sections of the trace assembly. Structurally, the instant application solves the above stated problem by using a way “to cross the R+ and R- lines halfway in the suspension, such that all the crosstalks equally add to the R+ and R- lines canceling out the total effect disregarding any transmission line effects”, as stated in the paragraph beginning on line 15 of page 10 of the instant application. The stated objective of Carpenter et al. is “providing reduced susceptibility to electromagnetic interference and stray signal pickup”. Structurely, Carpenter solves its stated objective above by using, “a twisted wire transmission pair in order to provide self-shielding of one or multiple signal pairs against unwanted electromagnetic noise (EMI) or radio frequency interference (RFI). Therefore, the instant application and Carpenter use different

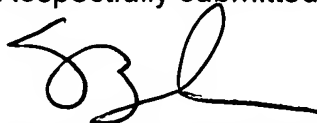
structures to solve different problems. In summary, the instant application solves the problem of preventing interference from the trace assembly itself from interfering with units outside of the trace assembly, while Carpenter solves the problem of protecting the trace assembly from interference from sources outside of the trace assembly. The title of Carpenter et al. contains the words "self-shielding". Therefore, based on the amendment above to independent claims 1 and 19, which clearly states the advantage of the instant application, claims 1 and 19 and their dependent claims should be allowed over Carpenter et al.

Claims 7-18 and 25-36 have been canceled as per the Election/Restriction.

The examiner is thanked for the thorough review of this patent application. The changes to the specification do not introduce any new matter.

It is requested that should there be any problems with this Amendment, please call the undersigned Attorney at (845) 452-5863.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'SBA', written over a horizontal line.

Stephen B. Ackerman, Reg. No. 37,761